



Ignore Crate lib.rs: Code Companion

Reference code for the ignore crate lib.rs lecture. Sections correspond to the lecture document.

Section 1: Crate Overview

```
/*!
The ignore crate provides a fast recursive directory iterator that respects
various filters such as globs, file types and `.gitignore` files. The precise
matching rules and precedence is explained in the documentation for
`WalkBuilder`.
*/

#![deny(missing_docs)]

use std::path::{Path, PathBuf};

// Re-exports from walk module – the main public API
pub use crate::walk::{
    DirEntry, ParallelVisitor, ParallelVisitorBuilder, Walk, WalkBuilder,
    WalkParallel, WalkState,
};

// Module declarations
mod default_types; // Built-in file type definitions
mod dir;           // Per-directory ignore state
pub mod gitignore; // Gitignore parsing (public)
pub mod overrides; // CLI glob overrides (public)
mod pathutil;      // Path utilities (private)
pub mod types;      // File type matching (public)
mod walk;           // Directory traversal (items re-exported above)
```

Simple usage:

```
use ignore::Walk;

for result in Walk::new("./") {
    match result {
        Ok(entry) => println!("{}", entry.path().display()),
        Err(err)  => println!("ERROR: {}", err),
    }
}
```


